Discrete Mathematics
Volume 190, Numbers 1–3, 28 August 1998

Contents

Contributions

R.J.R. Abel and F.E. Bennett
The existence of perfect Mendelsohn designs with block size 7 1

D. Amar and O. Togni
Irregularity strength of trees 15

A. Andrzejak
An algorithm for the Tutte polynomials of graphs of bounded treewidth 39

E.M. Arkin and R. Hassin
Graph partitions with minimum degree constraints 55

S. Arumugam and J.S. Suseela
Acyclic graphoidal covers and path partitions in a graph 67

A.P. Godbole, L.K. Potter, E.J. Sandquist
Sign-balanced covering matrices 79

G. Gutin and V.E. Zverovich
Upper domination and upper irredundance perfect graphs 95

H. Hind and Y. Zhao
Edge colorings of graphs embeddable in a surface of low genus 107

K.M. Koh and E.G. Tay
On optimal orientations of cartesian products of graphs (I) 115

K. Kołodziejczyk
The boundary characteristic and the volume of lattice polyhedra 137

V.P. Korzhik
Triangular embedings of K_n–K_m with unboundedly large m 149

D. Kratsch and J.-X. Rampon
Tree-visibility orders 163

S.B. Mulay and C.G. Wagner
Finitary bases and formal generating functions 177

S. Rajpal
On binary k-paving matroids and Reed–Muller codes 191

V. Yorgov
The extremal codes of length 42 with automorphism of order 7 201

X. Zhu
Chromatic Ramsey numbers 215

Communication

R. Škrekovski
Choosability of K_5-minor-free graphs 223

Discrete Mathematics
Volume 190, Numbers 1–3, 28 August 1998

Contents

Contributions

R.J.R. Abel and F.E. Bennett
The existence of perfect Mendelsohn designs with block size 7 1

D. Amar and O. Togni
Irregularity strength of trees 15

A. Andrzejak
An algorithm for the Tutte polynomials of graphs of bounded treewidth 39

E.M. Arkin and R. Hassin
Graph partitions with minimum degree constraints 55

S. Arumugam and J.S. Suseela
Acyclic graphoidal covers and path partitions in a graph 67

A.P. Godbole, L.K. Potter, E.J. Sandquist
Sign-balanced covering matrices 79

G. Gutin and V.E. Zverovich
Upper domination and upper irredundance perfect graphs 95

H. Hind and Y. Zhao
Edge colorings of graphs embeddable in a surface of low genus 107

K.M. Koh and E.G. Tay
On optimal orientations of cartesian products of graphs (I) 115

K. Kołodziejczyk
The boundary characteristic and the volume of lattice polyhedra 137

V.P. Korzhik
Triangular embedings of K_n–K_m with unboundedly large m 149

D. Kratsch and J.-X. Rampon
Tree-visibility orders 163

S.B. Mulay and C.G. Wagner
Finitary bases and formal generating functions 177

S. Rajpal
On binary k-paving matroids and Reed–Muller codes 191

V. Yorgov
The extremal codes of length 42 with automorphism of order 7 201

X. Zhu
Chromatic Ramsey numbers 215

Communication

R. Škrekovski
Choosability of K_5-minor-free graphs 223

Notes

E. Alarcon
An extremal result on convex lattice polygons 227

E. Barcucci, S. Brunetti, A. Del Lungo and F. Del Ristoro
A combinatorial interpretation of the recurrence $f_{n+1}=6\,f_n-f_{n-1}$ 235

L. Caccetta and R.Z. Jia
On a problem concerning ordered colourings 241

N.J. Calkin
On the structure of a random sum-free set of positive integers 247

A. Ehrenfeucht, T. Harju, P. ten Pas and G. Rozenberg
Permutations, parenthesis words, and Schröder numbers 259

W.H. Holzmann and H. Kharaghani
A D-optimal design of order 150 265

D. Moews
Optimally pebbling hypercubes and powers 271

T.B. Moorhouse and D.G. Corneil
Completeness for intersection classes 277

L. Pachter and P. Kim
Forcing matchings on square grids 287

G.J. Woeginger
The toughness of split graphs 295

Author index to volume 190 299